LAND APPLICATION OF BIOSOLIDS ROY HOPKINS

LO75 (FIELDS 4 – 8, 11 – 16, 18, 20 – 43) LOUISA COUNTY, VIRGINIA JULY 2011





June 5, 2012

Mr. Ed Stuart Dept of Environmental Quality Northern Virginia Regional Office 13901 Crown Court Woodbridge, VA 22193

Dear Mr. Stuart:

Transmitted herein for your consideration is land application site for Roy Hopkins (designated as LO 75, fields 4-8, 11-16, 18, 20-43), located in Louisa County, Virginia. This submission contains strictly site specific information. Please refer to the operations and maintenance manual submitted under separate cover for all non-site specific information.

Do not hesitate to contact me at (804) 443-2170 should you have any questions or require additional information.

Sincerely

Kelly M. Love

Technical Services Director

KML/cmw

SYNAGRO

FIELD SUMMARY SHEET

Roy Hopkins

LO75

SYNAGRO FIELD #	计划选择的		FSA TRACT #	FSA FIELD #	TOPO QUAD	OWNER
75-04	4.0	4.0			Ferncliff	Hopkins, Overton W Trustee
75-05	4.9	4.7			Ferncliff	Hopkins, Roy & Mary Jo
75-06	18.9	18.5			Ferncliff	Hopkins, Roy & Mary Jo Pryor, Brenda
75-07	5.6	5.5			Ferncliff	Hopkins, Roy & Mary Jo Hopkins, Roy & Mary Jo
75-08	3.4	3.2			Ferncliff	Hopkins, Roy & Mary Jo
75-11	5.5	4.9			Pendleton	Hopkins, Roy & Mary Jo
75-12	23.8	23.8			Pendleton	Hopkins, Roy & Mary Jo
75-13	21.1	21.1			Pendleton	Hopkins, Roy & Mary Jo
75-14	29.4	27.5			Pendleton	Hopkins, Roy & Mary Jo
75-15	10.7	10.7			Pendleton	Hopkins, Roy & Mary Jo
75-16	16.4	15.7			Pendleton	Hopkins, Roy & Mary Jo
75-18	2.5	2.5			Pendleton	Hopkins, Roy & Mary Jo
75-20	23.0	23.0			Ferncliff Pendleton	Owen, Carol Lynn
75-21	7.9	7.8			Ferncliff	Owen, Carol Lynn
75-23	11.5	11.5			Ferncliff	Owen, Carol Lynn
75-24	1.4	1.2			Ferncliff	Hopkins, Roy & Mary Jo
75-25	29.8	29.5			Ferncliff	Hopkins, Roy & Mary Jo
75-26	4.9	4.8			Ferncliff	Hopkins, Roy & Mary Jo
75-28	9.6	9.4			Ferncliff	Hopkins, Overton W Trustee
75-29	12.9	12.8			Ferncliff	Hopkins, Overton W Trustee
75-30	54.2	49.0			Ferncliff	Hopkins, Steven B & Crysti B
75-31	15.9	15.4			Ferncliff	Hopkins, Roy & Mary Jo

SYNAGRO FIELD #			FSA TRACT #	FSA FIELD #	TOPO QUAD	OWNER
75-32	18.3	17.9			Ferncliff Pendleton	Woolfolk Holding, LLC
75-33	12.0	11.4			Ferncliff Pendleton	Woolfolk Holding, LLC
75-34	6.0	5.8			Pendleton	Woolfolk Holding, LLC
75-35	12.3	10.7			Pendleton	Woolfolk Holding, LLC
75-36	73.8	71.6			Pendleton	Hopkins, Roy & Michael & Kimberly & Mary Jo
. 75-37	14.9	12.6			Ferncliff	Owen, Carol Lynn
75-38	59.9	57.1			Ferncliff	Hopkins, Roy E & Mary Jo
75-39	7.5	6.4			Pendleton	Woolfolk, Cosby Lee
75-40	6.9	5.8			Pendleton	Woolfolk, Cosby Lee
75-41	23.8	23.8			Ferncliff	Wright, Donald
75-42	15.4	14.1			Ferncliff	Wright, Donald
75-43	13.3	11.7			Ferncliff	Wright, Donald
TOTALS:	581.4	555.4				

VIRGINIA POLLUTION ABATEMENT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI: LAND APPLI	CATION AGREEMENT - B	IOSOLIDS AND INDUSTRI	AL RESIDUALS
A. This biosolids/industrial	residuals land application a	agreement is made on	3 7 12 between
referred to here as the "Pe or until ownership of all pa	ermittee". This agreement r rcels changes. If ownership rnership has changed will n	emains in effect until it is ter p of individual parcels identi	rminated in writing by either party ified in this agreement changes, eceive biosolids or industrial
Landowner: I am the registered owner Virginia, which includes the as Exhibit A.	of real property known as _ e agricultural sites identified	Riverview Farm	5, located in, stified on the tax map(s) attached
Table 1.: Parcels aut	horized to receive biosolids	, water treatment residuals	or other industrial sludges
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
56-91 56-30	56-36	56-96	56-97 56-102(Dam-1s)
56-95	1 56-37	56-100	1 57 -1/57-14
Additional parcels containing La			
Check one:	n the sole owner of the prop		
closing date; and 2. Notify the permit ho I have no other agreements	r of the applicable public ac lder of the sale within two w for land application on the at the fields are no longer a	ccess and crop management weeks following closing. fields identified herein. I will	I notify the permittee immediately rapplication or any part of this
I hereby grant permission to identified above and in Exhi above, before, during or afte	bit A. I also grant permission	on for DEQ staff to conduct	ow, on the agricultural sites inspections on my land identified se of determining compliance.
Class B biosolids Water Wes INO Proposition Roy E. Hopling Landowher - Printed Name		Tyes No	Other industrial sludges HYES INO HOTSESLEE FORMER LOUISM
land in the manner authorize the nutrient management p §10.1-104.2 of the Code of land application has comm	zed by the VPA Permit Reg plan prepared for each land Virginia. Permittee will pro enced. If the plan requires r	ulation and in amounts not a application field by a person ovide a copy of the NMP to t	rial residuals on the landowner's to exceed the rates identified in a certified in accordance with the landowner within 30 days after ctual application rates or farming ation.
Permittee agrees to notify I specifically prior to any parapplied.	andowner or landowner des ticular application to landow	signee of the proposed sche vner's land. Notice shall inc	edule for land application and slude the source of residuals to be
Lee Rosson	Lee Rossur	106	
Permittee – Authorized Represe Printed Name		06	Mailing Address VA 22438

*

VIRGINIA POLLUTION ABATEMENT APPLICATION PART D-VI LAND APPLICATION AGREEMENT

Page 2 of 2

Permittee: Synagro

Permit # or County: __

Farm name or address: RIVENVIEW FARMS, LLC

ONISC

Landowner Site Management Requirements:

I, the landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

- Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field
 as a biosolids land application site, unless requested by the Permittee, at least 30 days after land application
 at that site was completed.
- 2. Public Access

a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.

- b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
- c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by the permitting authority
- 3. Crop Restrictions:

a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.

b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,

c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.

d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;

- e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy).
- 4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

- a. Meat producing livestock shall not be grazed for 30 days,
- b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
- Other animals shall be restricted from grazing for 30 days;
- Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial
 residuals applications such that the total crop needs for nutrients are not exceeded as identified in the
 nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of
 Virginia;
- 6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on landowner's land for three years following the application of biosolids or industrial residuals borne cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Landowner's Signature

Rev 10/03/2011

Аррепаіх і

VIRGINIA POLLUTION ABATEMENT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI: LAND APPLI	CATION AGREEMENT - BIO	OSOLIDS AND INDUSTRIA	L RESIDUALS
A. This biosolids/industrial	residuals land application a	greement is made on 3	14 12 between
referred to here as the "Pe or until ownership of all pa	referred to here rmittee". This agreement re rcels changes. If ownership mership has changed will no	as "Landowner", andemains in effect until it is term	ninated in writing by either party ed in this agreement changes,
Landowner: I am the registered owner of Virginia, which includes the as Exhibit A.	of real property known ase agricultural sites identified		ied on the tax map(s) attached
Table 1.: Parcels auti	norized to receive biosolids,	water treatment residuals or	other industrial sludges
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
19-29	SEE Tax I	D sheet it site	Book
4-30			
79-19			
Additional parcels containing Lar	nd Application Sites are identified o	n Supplement A (check if applicable	le)
	n the sole owner of the prop n one of multiple owners of t	erties identified herein. the properties identified here	ein.
within 38 months of the lates 1. Notify the purchases closing date; and 2. Notify the permit ho	st date of biosolids application of the applicable public according to the sale within two within t	cess and crop management eeks following closing.	restrictions no later than the
I have no other agreements if conditions change such th agreement becomes invalid	at the fields are no longer a	ields identified herein. I will revailable to the permittee for	notify the permittee immediately application or any part of this
identified above and in Exhi above, before, during or after	bit A. I also grant permission in the permitter is application of permitter treatment residuals in Fig. 1.	ted residuals for the purpose ood processing waste	nspections on my land identified of determining compliance.
Denald Wright	OW Would	6408 Gry Mes	. 1
Landowner - Printed Name	Signature	V 1	Mailing Address 2323 4
land the manner authorize the nutrient management p §10.1-104.2 of the Code of land application has comm	zed by the VPA Permit Regular prepared for each land a Virginia. Permittee will probenced. If the plan requires n	ulation and in amounts not to application field by a person vide a copy of the NMP to th	le landowner within 30 days after ual application rates or farming
		signee of the proposed sched ner's land. Notice shall inclu	dule for land application and ude the source of residuals to be
Lee C. Rosson	Lee O Rossir	1064	7 Tidewater Trail
Permittee – Authorized Represe Printed Name		01.	7 Tidewater Trail railing Address replain VA 22438
-75		Char	apair "

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VIRGINIA POLLUTION ABATEMENT APPLICATION PART D-VI LAND APPLICATION AGREEMENT

Page 2 of 2

Permittee:	Synagro	Permit # or County:	Louisa
Landowner:	Wright	Farm name or address	: LO - 75

Landowner Site Management Requirements:

I, the landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

- 1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, at least 30 days after land application at that site was completed.
- 2. Public Access
 - a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
 - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
 - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by the permitting authority
- 3. Crop Restrictions:
 - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
 - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil.
 - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
 - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
 - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy).
- 4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

- a. Meat producing livestock shall not be grazed for 30 days.
- b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
- c. Other animals shall be restricted from grazing for 30 days;
- 5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
- 6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on landowner's land for three years following the application of biosolids or industrial residuals borne cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Landowner's Signature

3-14-12 Date

VIRGINIA POLLUTION ABATEMENT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

Rev 10/03/2011

PART D-VI: LAND APPLI	CATION AGREEMENT - E	BIOSOLIDS AND INI	DUSTRIAL RES	DUALS	
A. This biosolids/industrial	residuals land application	agreement is made	on 3/14		between
referred to here as the "Pe or until ownership of all pa those parcels for which ow residuals under this agree	referred to her rmittee". This agreement rcels changes. If ownersh rership has changed will it	e as "Landowner", a remains in effect unt ip of individual parce	ndill it is terminated els identified in th	nis agreeme	ent changes,
Landowner: I am the registered owner Virginia, which includes the as Exhibit A.	of real property known as a gricultural sites identifie	LO - 7 d below in Table 1 a			Louisa, p(s) attached
Table 1.: Parcels aut	horized to receive biosolid	s, water treatment re	siduals or other	industrial s	ludges
Tax Parcel ID	Tax Parcel ID	Tax Parc	el ID	Tax Pa	rcel ID
56-93	Sec Tax	In Sheet	in site 1	Book	
56-93A	56-101A				
56-94				-	
Additional parcels containing Lar	nd Application Sites are identified	on Supplement A (check	k if applicable)		
Check one:	n the sole owner of the pro	perties identified he	rein. tified herein.		
closing date; and	st date of biosolids applica r of the applicable public a lder of the sale within two for land application on the	tion, I shall: ccess and crop man weeks following clos ifields identified here	agement restrict sing. ein. I will notify the	tions no late	er than the
agreement becomes invalid I hereby grant permission to identified above and in Exhi above, before, during or afte Class B biosolids Yes No	the Permittee to land app bit A. I also grant permiss er land application of perm r treatment residuals s No	ion for DEQ staff to itted residuals for the Food processing was Pes D No	conduct inspecti e purpose of det este Other in El Yes	ons on my ermining co ndustrial slu No	land identified ompliance.
Steve Iteptal	Signature /	1/ 53	17 Roynith		Levision
Permittee: land in the manner authorize the nutrient management ps 10.1-104.2 of the Code of land application has communication at the site, a revision of the code of land application has communication at the site, a revision of the code of land application has communication at the site, a revision of the code of land application has communication at the site, a revision of the code of land application has communication at the site, a revision of the code of land application has communication at the code of land application has communicated at the code of land application has	the permittee, agrees to a zed by the VPA Permit Replan prepared for each land Virginia. Permittee will prenced. If the plan requires	gulation and in amou d application field by rovide a copy of the modification to refle	or industrial residunts not to excee a person certifie NMP to the land oct the actual app	luals on the ed the rates ed in accord owner withi	identified in dance with in 30 days after
Permittee agrees to notify I specifically prior to any par applied.			shall include the	source of	residuals to be
Lee C. Ross		02300	1064	7 Tid	ewater Trai
Permittee – Authorized Represe Printed Name			Mailing Ad	idress .	WA 22438

Page 1 of 2

Permittee: SuNagro	Permit # or County:	Louisa	
Landowner: HOP EINS	Farm name or address:	LO , 15	

Landowner Site Management Requirements:

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 residuals applications such that the total crop needs for nutrients are not exceeded as identified in the
 nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of
 Virginia;
- 6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on landowner's land for three years following the application of biosolids or industrial residuals borne cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Landowner's Signature

cryste Hopkun

3-14-12

Date

VIRGINIA POLLUTION ABATEMENT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI: LAND AP	PLICATION AGREEMENT - E	BIOSOLIDS AND INDUSTRI	IAL RESIDUALS
A. This biosolids/indus	trial residuals land application	agreement is made on	3 7 12 between
Pryor	referred to her	e as "Landowner", and	Sunagro.
or until ownership of al	I parcels changes. If ownership ownership has changed will r	ip of individual parcels ident	erminated in writing by either party tified in this agreement changes, eceive biosolids or industrial
Landowner: I am the registered own Virginia, which includes as Exhibit A.	ner of real property known as so the agricultural sites identifie	Lo - 75 d below in Table 1 and iden	tified on the tax map(s) attached
	authorized to receive biosolids	s, water treatment residuals	or other industrial sludges
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
56.34	See Tax In	sheet in sit	e Book
56-96	_	-	
	g Land Application Sites are identified		able)
Check one:	1 am the sole owner of the pro I am one of multiple owners or	f the properties identified he	erein.
within 38 months of the 1. Notify the purch closing date; an 2. Notify the permi	latest date of biosolids applica aser of the applicable public a d t holder of the sale within two	tion, I shall: ccess and crop managemen weeks following closing.	th biosolids have been applied nt restrictions no later than the
I have no other agreeme if conditions change suc agreement becomes inv	h that the fields are no longer	fields identified herein. I wi available to the permittee fo	Il notify the permittee immediately or application or any part of this
identified above and in E above, before, during or Class B biosolids W	after land application of permilater treatment residuals	ion for DEQ staff to conduct	t inspections on my land identified se of determining compliance.
Landowner - Printed Name	Signature Signature	- Kry 3376	Mailing Address 23063
land in the manner autithe nutrient manageme §10.1-104.2 of the Codland application has co	norized by the VPA Permit Req ent plan prepared for each land e of Virginia. Permittee will pr	gulation and in amounts not d application field by a perso ovide a copy of the NMP to modification to reflect the a	the landowner within 30 days after ctual application rates or farming
			nedule for land application and clude the source of residuals to be
Rosson &	Roser	100	047 Tidewater Trail
Permittee – Authorized Rep Printed N		Che	Mailing Address amplain, VA 22438

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Lo-75

Rev 10/03/2011

Permittee:	Sun	agro	Permit # or County:	Louisa	
Landowner:	Pry	or	Farm name or address:	L0-75	

Landowner Site Management Requirements:

I, the landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

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4. Livestock Access Restrictions:

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- Tobacco, because it has been shown to accumulate cadmium, should not be grown on landowner's land for three years following the application of biosolids or industrial residuals borne cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Bronda Rry Landowner's Signature

3-7-12 Date

Date

VIRGINIA POLLUTION ABATEMENT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

A. This biosolids/industria	al residuals land application ag	reement is made on	3 19 12 between
referred to here as the "F or until ownership of all p	Permittee". This agreement renearcels changes. If ownership of the parcels have been been been been been been been be	nains in effect until it is to of individual parcels iden	erminated in writing by either party tified in this agreement changes,
Landowner: I am the registered owne Virginia, which includes t as Exhibit A.	r of real property known as he agricultural sites identified b	Lo - 75 relow in Table 1 and iden	ntified on the tax map(s) attached
Table 1.: Parcels au	uthorized to receive biosolids, v	vater treatment residuals	or other industrial sludges
Tax Parcel ID 56-33	Tax Parcel ID See Tax II	Tax Parcel ID Sheet F	Tax Parcel ID or Site Book
☐ Additional parcels containing L	and Application Sites are identified on	Supplement A (check if applic	eable)
Check one:	am the sole owner of the prope am one of multiple owners of th	rties identified herein.	
Notify the purchas closing date; and Notify the permit h I have no other agreement if conditions change such agreement becomes invalid	older of the sale within two were as for land application on the fie that the fields are no longer availd.	ess and crop manageme eks following closing. elds identified herein. I wailable to the permittee for	ill notify the permittee immediately or application or any part of this
identified above and in Ext	to the Permittee to land apply r nibit A. I also grant permission fter land application of permitte	for DEQ staff to conduc	t inspections on my land identified se of determining compliance.
Class B biosolids Wat Yes No YY Overton Without Landowner - Printed Name	es 🗆 No	od processing waste Yes □ No Applicis 2292	Other industrial sludges A Yes □ No Ack Jowett Rd. Mailing Address
Permittee: land in the manner author the nutrient management §10.1-104.2 of the Code of land application has communication.	_, the permittee, agrees to apprized by the VPA Permit Regulation plan prepared for each land approving the proving the provin	ation and in amounts not oplication field by a perso de a copy of the NMP to odification to reflect the a	trial residuals on the landowner's to exceed the rates identified in on certified in accordance with the landowner within 30 days after actual application rates or farming
Permittee agrees to notify specifically prior to any pa	landowner or landowner design	gnee of the proposed sch	
L. Rosson	L Rosson	3/10	amplain VA
Permittee - Authorized Repres			Mailing Address 22 438

Landowner Site Management Requirements:

I, the landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

- Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, at least 30 days after land application at that site was completed.
- 2. Public Access
 - Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
 - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
 - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by the permitting authority
- 3. Crop Restrictions:
 - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
 - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
 - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
 - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
 - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy).
- Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

- a. Meat producing livestock shall not be grazed for 30 days,
- b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
- c. Other animals shall be restricted from grazing for 30 days;
- Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial
 residuals applications such that the total crop needs for nutrients are not exceeded as identified in the
 nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of
 Virginia;
- 6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on landowner's land for three years following the application of biosolids or industrial residuals borne cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Overton W.) tophins March 19 2012

Landowner's Signature Date

Rev 10/03/2011

Appenuix 1

VIRGINIA POLLUTION ABATEMENT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This biosolids/indu CISEY referred to here as the or until ownership of a those parcels for which residuals under this a	e "Permittee". all parcels chan th ownership ha	This agreeme ges. If owner	nt remains in ship of indivi	effect until it i dual parcels ic	is terminal	ted in writing b	ent changes,
Landowner: I am the registered ov Virginia, which include as Exhibit A.	vner of real projes the agriculture	perty known a ral sites identi	fied below in	Table 1 and in		_, located in _ on the tax map	
Table 1.: Parcel	s authorized to	receive bioso	lids, water tre	eatment residu	als or oth	er industrial sl	udges
Tax Parcel ID 50-107	<u>Ta</u> <u>See</u>	Tax	[D She	Tax Parcel ID	.)	Tax Par Book	cel ID
Additional parcels containi	ng Land Application	n Sites are identif	ied on Supplem	ent A (check if ar	oplicable)		
Check one:	I am the sole	owner of the	properties ide	entified herein.			
Notify the purch closing date; at 2. Notify the perm I have no other agreem if conditions change su agreement becomes in I hereby grant permissi identified above and in	nd it holder of the ents for land ap that the field valid. on to the Permi	sale within two	no weeks followine fields idea idea idea idea idea idea idea idea	owing closing. Intified herein. The the permittents as specified	I will notify e for appl below, or	y the permittee ication or any n the agricultur	e immediately part of this ral sites
above, before, during o	r after land app	olication of per	rmitted residu	uals for the pu	rpose of c	letermining co	mpliance.
	Vater treatment Yes □ No		Food proc	essing waste ☐ No	17 XI	r industrial slue es □ No	
Landowner - Printed Nam	Duen	Signature	you Owen		125	as Wend	ylane
		Oignature			Am	relia, VA à	23002
land in the manner au the nutrient managem §10.1-104.2 of the Coland application has copractices at the site, a	ent plan prepar de of Virginia. ommenced. If th	VPA Permit F red for each la Permittee will he plan requir	Regulation ar and application provide a co es modificati	d in amounts on field by a people of the NMF on to reflect the	not to exc erson certi to the lar e actual a	eed the rates ified in accordand accordance in the recordance in t	identified in ance with n 30 days after
Permittee agrees to no specifically prior to any applied.							
Rosso Permittee - Authorized Re Printed	1	signature			10647 Mailing	Tideway Address	ter Trail

*

VIRGINIA POLLUTION ABATEMENT APPLICATION PART D-VI LAND APPLICATION AGREEMENT Permittee: Synage Permit # or County: Permit # or County: Farm name or address: Smith Farm Landowner Site Management Requirements:

I, the landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, at least 30 days after land application at that site was completed.

2. Public Access

- a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
- Public access to land with a low potential for public exposure shall be restricted for at least 30 days
 following any application of biosolids. No biosolids amended soil shall be excavated or removed from
 the site during this same period of time unless adequate provisions are made to prevent public
 exposure to soil, dusts or aerosols;
- c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by the permitting authority

3. Crop Restrictions:

- a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
- b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
- c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
- d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
- e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy).

4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

- a. Meat producing livestock shall not be grazed for 30 days.
- b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
- c. Other animals shall be restricted from grazing for 30 days;
- Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial
 residuals applications such that the total crop needs for nutrients are not exceeded as identified in the
 nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of
 Virginia;
- Tobacco, because it has been shown to accumulate cadmium, should not be grown on landowner's land for three years following the application of biosolids or industrial residuals borne cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Landowner's Signature

3/12/12 Date

VIRGINIA POLLUTION ABATEMENT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS A. This biosolids/industrial residuals land application agreement is made on between referred to here as "Landowner", and referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement. Landowner: I am the registered owner of real property known as _ Virginia, which includes the agricultural sites identified below in Table 1 and identified on the tax map(s) attached as Exhibit A. Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges Tax Parcel ID Tax Parcel ID Tax Parcel ID Tax Parcel ID 6-106 Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable) Check one: I am the sole owner of the properties identified herein. ☐ I am one of multiple owners of the properties identified herein. In the event that I, the landowner, sell or transfer all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, I shall: 1. Notify the purchaser of the applicable public access and crop management restrictions no later than the closing date: and 2. Notify the permit holder of the sale within two weeks following closing. I have no other agreements for land application on the fields identified herein. I will notify the permittee immediately if conditions change such that the fields are no longer available to the permittee for application or any part of this agreement becomes invalid. I hereby grant permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. I also grant permission for DEQ staff to conduct inspections on my land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance. Class B biosolids Water treatment residuals Other industrial sludges Food processing waste Yes □ No Landowner - Printed Name Mailing Address Permittee: magg , the permittee, agrees to apply biosolids and/or industrial residuals on the landowner's land the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia. Permittee will provide a copy of the NMP to the landowner within 30 days after land application has commenced. If the plan requires modification to reflect the actual application rates or farming practices at the site, a revised plan will be provided within 2 weeks of the modification. Permittee agrees to notify landowner or landowner designee of the proposed schedule for land application and specifically prior to any particular application to landowner's land. Notice shall include the source of residuals to be applied. 10647 Tidewater Trail Champlain VA 22438 Permittee - Authorized Representative Printed Name

Permit # or County: Permittee: Farm name or address: Landowner:

Landowner Site Management Requirements:

I, the landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

- 1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, at least 30 days after land application at that site was completed.
- Public Access
 - a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
 - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
 - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by the permitting authority
- 3. Crop Restrictions:
 - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
 - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil.
 - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
 - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
 - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy).
- 4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

- a. Meat producing livestock shall not be grazed for 30 days,
- b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
- c. Other animals shall be restricted from grazing for 30 days;
- 5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
- 6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on landowner's land for three years following the application of biosolids or industrial residuals borne cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

en / tylins

Landowner's Signature

March 16,2012

VIRGINIA POLLUTION ABATEMENT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

	ATION AGREEMENT - BIOS		7 1
HOURING	esiduals land application agr	s Landowner, and	SUNGOVO.
or until ownership of all pare	mittee". This agreement rem cels changes. If ownership o pership has changed will no lo	ains in effect until it is to f individual parcels iden	erminated in writing by either party tified in this agreement changes,
Landowner: I am the registered owner o Virginia, which includes the as Exhibit A.	f real property known as agricultural sites identified be	LO - 75 elow in Table 1 and iden	ntified on the tax map(s) attached
Table 1.: Parcels author	orized to receive biosolids, w	ater treatment residuals	or other industrial sludges
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
See Tax	ID sheet	in site	Book
Additional parcels containing Land			cable)
Check one: DX I am	the sole owner of the proper one of multiple owners of the	ties identified herein. e properties identified he	erein.
within 38 months of the latest 1. Notify the purchaser closing date; and 2. Notify the permit hold	t date of biosolids application of the applicable public acce der of the sale within two week	, I shall: ss and crop manageme eks following closing.	ch biosolids have been applied intrestrictions no later than the
I have no other agreements f if conditions change such tha agreement becomes invalid.	or land application on the fiel t the fields are no longer ava	ds identified herein. I will ill able to the permittee for	ill notify the permittee immediately or application or any part of this
I hereby grant permission to tidentified above and in Exhib above, before, during or after	it A. I also grant permission	for DEQ staff to conduc	low, on the agricultural sites t inspections on my land identified use of determining compliance.
Class B biosolids Water Yes □ No Yes	treatment residuals Foo	od processing waste ′es □ No	Other industrial sludges Ž Yes □ No
Landowner - Printed Name	24	Hedera 55/7	Mailing Address 23653
land in the mariner authorize the nutrient management pla §10.1-104.2 of the Code of land application has comme	ed by the VPA Permit Regula an prepared for each land ap Virginia. Permittee will provid	tion and in amounts not plication field by a person de a copy of the NMP to dification to reflect the a	trial residuals on the landowner's to exceed the rates identified in on certified in accordance with the landowner within 30 days after actual application rates or farming eation.
specifically prior to any parti-			nedule for land application and clude the source of residuals to be
applied.		106	647 Tidewater Trad
Lee Rosson	Lee C. Plesson		implain, VA 22438
Permittee – Authorized Represent Printed Name	ative Signature		Mailing Address

Tabberraus w

Permittee: Sungaro	Permit # or County:	Louisa
Landowner: Hopkins	Farm name or address:	LO-75

Landowner Site Management Requirements:

I, the landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

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 - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by the permitting authority
- 3. Crop Restrictions:
 - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
 - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
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- b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
- c. Other animals shall be restricted from grazing for 30 days;
- 5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
- 6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on landowner's land for three years following the application of biosolids or industrial residuals borne cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare)

Signature

Appendix i

LO 75

VIRGINIA POLLUTION ABATEMENT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

Landowner: I am the registered owner of	of real property known as	LO - 75	es the agricultural sites identified
below in Table 1 and identi	fied on the tax map(s) attacher norized to receive biosolids, w	ed as Exhibit A.	
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
5.7 - 11	Tax Farocris	<u> </u>	
57 - 128			
Additional parcels containing La	nd Application Sites are identified on	Supplement A (check if applicate	ble)
Check one:	am the sole owner of the prop am one of multiple owners of	erties identified herein.	
within 38 months of the lat 1. Notify the purchas closing date; and 2. Notify the permit h I have no other agreement	est date of biosolids applications of the applicable public according to the sale within two was for land application on the fithat the fields are no longer a	on, I shall: cess and crop managemer eeks following closing. fields identified herein. I wil	h biosolids have been applied nt restrictions no later than the Il notify the permittee immediately or application or any part of this
identified above and in Extabove, before, during or at	fter land application of permit	on for DEQ staff to conduct ted residuals for the purpor	low, on the agricultural sites t inspections on my land identified se of determining compliance. al sludges (check all that apply)
Worlfolk Holdings, LLC Costy Lee & No Landowner - Printed Name	anay Woolfelk Many	J. Worfork	518 Bloomington Lane. Mailing Address
land in the manner author the nutrient management §10.1-104.2 of the Code of land application has comm	ized by the VPA Permit Regu plan prepared for each land a of Virginia. Permittee will prov	lation and in amounts not application field by a personated a copy of the NMP to the additionation to reflect the additional and the additional an	the landowner within 30 days after ctual application rates or farming
Permittee agrees to notify	landowner or landowner des	ignee of the proposed sch	edule for land application and
specifically prior to any pa	articular application to landow	ner's land. Notice shall inc	
specifically prior to any pa applied.	irticular application to landow	ner's land. Notice shall inc	10647 Tidewater Trail Champlain, VA 2243

PART D'VI LAND AFFEIGATION AGREEMENT			
Permittee: Synagro	Permit # or County:	Louisa	
Landowner: Costy Lee & Nancy Woolfelk	Farm name or address:	LO - 75	
Worlfolk Holdings, LLC			

Landowner Site Management Requirements:

I, the landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

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c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by the permitting authority

3. Crop Restrictions:

a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.

b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,

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d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;

e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy).

4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

- a. Meat producing livestock shall not be grazed for 30 days,
- b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
- c. Other animals shall be restricted from grazing for 30 days;
- 5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
- 6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on landowner's land for three years following the application of biosolids or industrial residuals borne cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Woolfelk Holdings LLC	11 and O. Woolfack	3/4/2013
Landowner's Signature		/ Date

Tax ID Landowner Identification Sheet

Landowner	Field #	Tax ID
HOPKINS, OVERTON W TRUSTEE	75-04	56 - 33
HOPKINS, ROY E & MARY JO	75-05	56 - 34, 101, 102C
HOPKINS, ROY E & MARY JO PRYOR, BRENDA H	75-06	56 - 96 56 - 34
PRYOR, BRENDA H HOPKINS, ROY E & MARY JO	75-07	56 - 34 56 - 96
HOPKINS, ROY E & MARY JO	75-08	56 - 96
HOPKINS, ROY E & MARY JO	75-11	56 - 95
HOPKINS, ROY E & MARY JO	75-12	57 - 40
HOPKINS, ROY E & MARY JO	75-13	57 - 40
HOPKINS, ROY E & MARY JO HOPKINS, ROY E & MARY JO	75-14 75-15	56 - 35 56 - 35
HOPKINS, ROY E & MARY JO HOPKINS, STEVE B & CRYSTI B	75-16 75-18	56 - 106 56 - 98
OWEN, CAROL LYNN	75-20	56 - 107
OWEN, CAROL LYNN	75-21	56 - 107
OWEN, CAROL LYNN	75-23	56 - 107
HOPKINS, ROY E & MARY JO HOPKINS, ROY E & MARY JO	75-24 75-25	56 - 102 56 - 102
HOPKINS, ROY E & MARY JO	75-26	56 - 102
HOPKINS, OVERTON W TRUSTEE	75-28	56 - 33
HOPKINS, OVERTON W TRUSTEE	75-29	56 - 33
HOPKINS, STEVEN B & CRYSTI B	75-30	56 - 93, 93A, 94, 102A
HOPKINS, ROY E & MARY JO	75-31	56 - 35, 37
WOOLFOLK HOLDING LLC	75-32	57 - 11
		57 - 128

Landowner	Field #	Tax ID
WOOLFOLK HOLDING LLC	75-33	57 - 11 57 - 128
WOOLFOLK HOLDING LLC	75-34	57 - 128 57 - 11
WOOLFOLK HOLDING LLC	75-35	57 - 11, 11A
HOPKINS, ROY ELLIS HOPKINS, KIMBERLY O HOPKINS, MICHAEL E & KIMBERLY O HOPKINS, MARY JO	75-36	57 - 1 57 - 1C 57 - 1B 57 - 1A
OWEN, CAROL LYNN	75-37	56 - 107
HOPKINS, ROY E & MARY JO	75-38	56 - 91
WOOLFOLK, COSBY LEE	75-39	57 - 11
WOOLFOLK, COSBY LEE	75-40	57 - 11
WRIGHT, DONALD W	75-41	69 - 29, 30
WRIGHT, DONALD W	75-42	69 - 30
WRIGHT, DONALD W	75-43	79 - 19

Field #	Latitude (north)	Longitude (west)
75-04	37° 57' 41.63"	78° 01' 27.69"
75-05	37° 58' 50.45"	78° 00' 04.78"
75-06	37° 57' 54.33"	78° 01' 31.25"
75-07	37° 57' 56.46"	78° 01' 18.95"
75-08	37° 58' 49.02"	78° 00′ 10.81″
75-11	37° 58' 56.35"	77° 59' 43.02"
75-12	37° 58' 47.07"	77° 59' 09.38"
75-13	37° 58' 41.99"	77° 59' 03.19"
75-14	37° 59' 09.57"	77° 58' 59.46"
75-15	37° 59' 18.33"	77° 58' 56.48"
75-16	37° 59' 24.83"	77° 58' 39.43"
75-18	37° 59' 37.37"	77° 58' 28.14"
75-20	37° 58' 59.61"	77° 59' 59.24"
75-21	37° 59' 03.18"	78° 00' 10.82"
75-23	37° 58' 49.47"	78° 00' 22.07"
75-24	37° 57' 45.95"	78° 01' 08.13"
75-25	37° 57' 39.10"	78° 01' 07.30"
75-26	37° 57' 30.59"	78° 00' 48.72"
75-28	37° 57' 40.53"	78° 01' 30.47"
75-29	37° 57' 49.64"	78° 01' 37.86"
75-30	37° 58' 13.41"	78° 01' 08.23"
75-31	37° 58' 06.99"	78° 01' 44.64"
75-32	37° 59' 34.41"	77° 59' 58.44"
75-33	37° 59′ 28.47″	77° 59' 55.78"
75-34	37° 59' 29.43"	77° 59' 42.77"
75-35	37° 59′ 34.92″	77° 59' 33.17"
75-36	37° 59' 51.51"	77° 59' 34.76"
75-37	37° 58' 44.79"	78° 00' 31.14"
75-38	37° 58' 36.42"	78° 00' 51.13"
75-39	37° 59′ 41.84″	77° 59' 31.74"
75-40	37° 59' 41.87"	77° 59' 42.50"
75-41	37° 55' 18.81"	78° 00' 26.94"
75-42	37° 55' 15.88"	78° 00' 11.65"
75-43	37° 55' 01.07"	78° 00' 05.07"

Haul Route:

The location maps in conjunction with the above latitude and longitude coordinates are a route planning tool meant to be a guide to indicate suggested haul routes for various preferences; to include but not limited to all federal, state, and local granted STAA access routes.







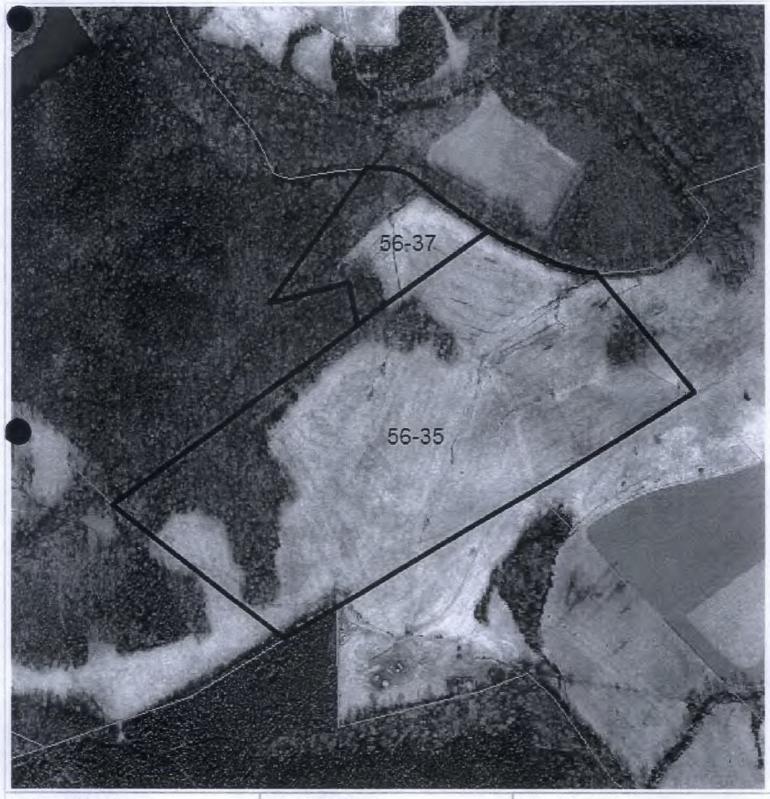
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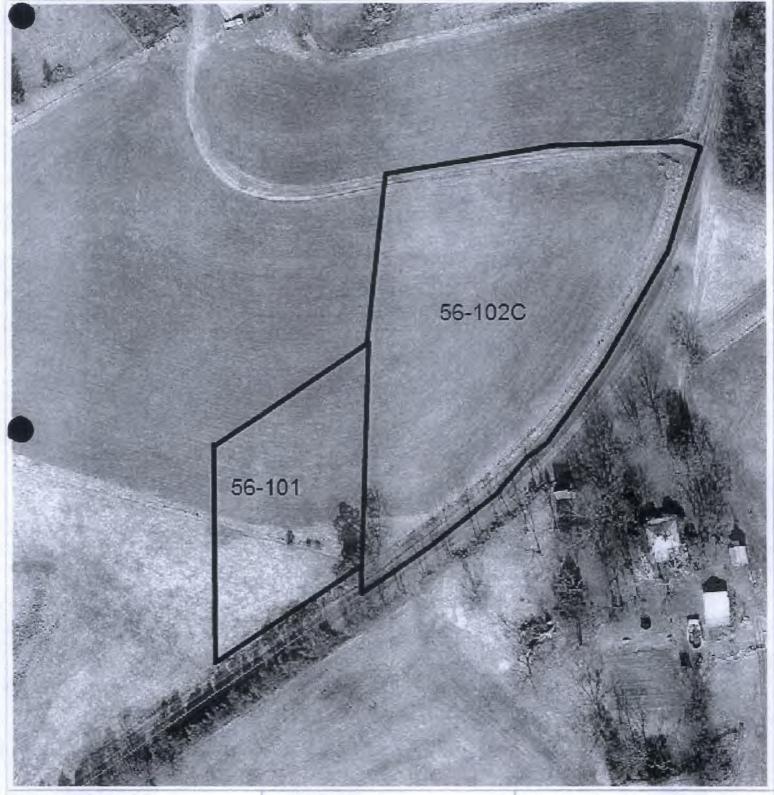
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Scale: 1:2256.994353

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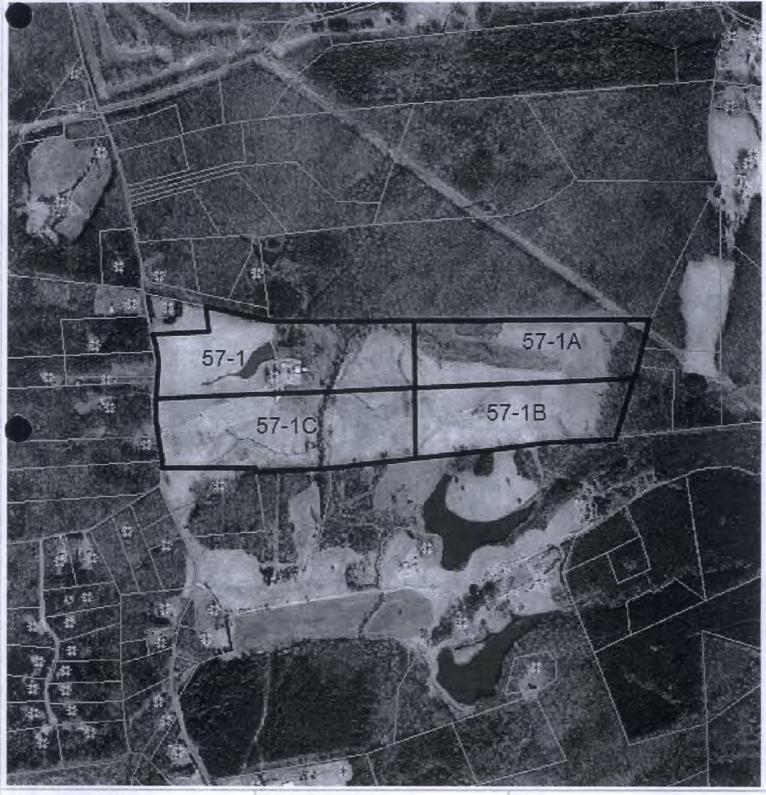
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Field 75-04 75-04	Map Unit Ch CfC3	3.6 0.3	Percentage 92 8	Soil Series Chewacla	High Water Nov-April	Flood Nov-April	Environmental Sensitive
75-05	OrB	4.7	100				
75-06 75-06	Ch Ts	10.4 7.4	58 42	Chewacla Tocca	Nov-April	Nov-April Jan-Dec	
75-07	Ch	5.4	100	Chewacla	Nov-April	Nov-April	
75-08	OrB	1.5	48				
75-08	SeB	1.0	31	Sekil			Leaching
75-08	SeC	0.7	21	Sekil			Leaching
75-11	CfC3	2.6	52				
75-11	TaB2	2.4	48				
75-12	NoB2	9.4	40				
75-12	NoC2	9.4	40				
75-12	TaB2	3.8	15				
75-12		1.2	5				
75-13		7.0	33				
75-13		5.6	27				
75-13		3.9	19				
75-13		2.6	12				
75-13	NaD2	2.0	9				
75-14	NoC2	11.7	43				
75-14		9.2	34				
75-14		4.0	15				
75-14		2.3	8				
75-15	NoB2	7.0	66				
75-15		2.2	21				
75-15		1.4	13				
75-16	TaC2	7.3	48				
75-16		6.6	44				
75-16		1.3	8				
75-17		5.2	34				
75-17		4.6	31				
75-17		3.6	24				
75-17	RoB	1.6	11				
75-18	NoB2	8.3	43				
75-18		7.0	36				
75-18		4.0	21	Lignum	Dec-May		

Field 75-19	Map Unit NoC2	Acres 26.3	Percentage 22	Soil Series	High Water	Flood	Environmental Sensitive
75-19	TaB2	23.8	20				
75-19 75-19	NoB2 TmC3	22.1 13.7	19 12				
75-19	CcB2	11.5	10				
75-19	RoB	7.4	6				
75-19	TaC2	7.7	6				
75-19	TmB3	5.6	5				
75-20	OrB	9.5	100				
75-21	OrB	7.5	100				
75-23	CcB2	7.1	64				
75-23	CfC3	2.6	23				
75-23	CeB3	0.7	7				
75-23	OrB	0.6	6				
75-24	TuB	1.2	100				
75-25	CcB2	11.4	38				
75-25	CfC3	8.1	28				
75-25	TuB	8.2	28				
75-25	Ch	1.8	6	Chewacla	Nov-April	Nov-April	
75-26	Ch	4.3	93	Chewacla	Nov-April	Nov-April	
75-26	We	0.3	7	Wehadkee	Nov-May	Nov-June	
, 0 20					,		
75-28	Ts	6.9	74	Tocca		Jan-Dec	
75-28	Ch	2.4	26	Chewacla	Nov-April	Nov-April	
75-29	Ch	7.8	64	Chewacla	Nov-April	Nov-April	
75-29	Ts	3.6	29	Tocca		Jan-Dec	
75-29	SeC	0.9	7	Sekil		our Doo	Leaching
10 20	000	0.0		COM			Loadining
75-30	SeC	16.0	33	Sekil			Leaching
75-30	Ch	13.6	28	Chewacla	Nov-April	Nov-April	
75-30	CcB2	8.6	18				
75-30	Ts	5.1	11	Tocca		Jan-Dec	
75-30	CfC3	4.8	10				
75-31	Ch	10.1	66	Chewacla	Nov-April	Nov-April	
75-31	Cn	2.9	19				
75-31	FIC2	1.3	9				
75-31	MoC	0.9	6				
75-32	AnB2	9.4	53				
75-32	CfC3	7.5	42				
75-32	CcB2	1.0	5				
75-33	CcC2	5.3	46				
75-33		3.1	27				
75-33		1.6	14				
75-33		0.9	8				
75-33		0.6	5				
			_				

Field 75-34	Map Unit SeC	Acres 3.1	Percentage 57	Soil Series Sekil	High Water	Flood	Environmental Sensitive Leaching
75-34	WH	1.8	32	Wehadkee-Chew	Nov-May	Nov-June	
75-34	CcB2	0.6	11				
75-35	CcB2	5.0	48				
75-35	SeC	3.4	33	Sekil			Leaching
75-35	SeB	1.1	10	Sekil			Leaching
75-35	WH	0.9	9	Wehadkee-Chew	Nov-May	Nov-June	
75-36	CcB2	27.8	40				
75-36	CfC3	12.8	18				
75-36	NoB2	11.9	17				
75-36	CcC2	10.9	15				
75-36	NsC3	6.8	10				
75-37	CeB3	3.8	30				
75-37	CfC3	3.5	28				
75-37	SeC	2.8	22	Sekil			Leaching
75-37	CcB2	2.5	20				
75-38	CfC3	17.1	31				
75-38	CeB3	15.2	27				
75-38	SeC	12.4	22	Sekil			Leaching
75-38	WH	11.3	20	Wehadkee-Chew	Nov-May	Nov-June	
75-39	CcB2	3.7	58				
75-39	AnC2	2.1	32				
75-39	CfC3	0.6	10				
75.40	0100		70				
75-40	CfC3	4.1	70	W. I. II. OI			
75-40	WH	1.0	18	Wehadkee-Chew	Nov-May	Nov-June	
75-40	CcB2	0.7	12				
75-41	TaB2	20.9	90				
75-41	TmC3	2.3	10				
75-42	TaC2	8.2	59				
75-42	TaB2	5.7	41				
75-43	NoB2	5.7	49				
75-43	NoC2	4.1	35				
75-43	AIB	1.0	9				
75-43	OrB	0.8	7				

Environmentally Sensitive Areas

Field	Reason for Sensitive Area
75-04	High Water Table (Map Unit Ch – 92%) Flooded Soils (Map Unit Ch – 92%)
75-05	None
75-06	High Water Table (Map Unit Ch – 58%) Flooded Soils (Map Units Ch, Ts – 100%)
75-07	High Water Table (Map Unit Ch – 100%) Flooded Soils (Map Unit Ch – 100%)
75-08	Leaching Potential (Map Unit SeB, SeC - 52%)
75-11	None
75-12	None
75-13	None
75-14	None
75-15	None
75-16	None
75-17	None
75-18	High Water Table (Map Unit LgB – 21%)
75-19	None
75-20	None
75-21	None
-	
75-23	None
75-24	None
75-25	High Water Table (Map Unit Ch – 6%) Flooded Soils (Map Unit Ch – 6%)
75-26	High Water Table (Map Units Ch, We – 100%) Flooded Soils (Map Units Ch, We – 100%)
75-28	High Water Table (Map Unit Ch – 26%) Flooded Soils (Map Units Ch, Ts – 100%)
75-29	High Water Table (Map Unit Ch – 64%) Flooded Soils (Map Units Ch, Ts – 93%) Leaching Potential (Map Unit SeC – 7%)
75-30	High Water Table (Map Unit Ch – 28%) Flooded Soils (Map Units Ch, Ts – 39%) Leaching Potential (Map Unit SeC – 33%)
75-31	High Water Table (Map Unit Ch – 66%) Flooded Soils (Map Unit Ch – 66%)

Field	Reason for Sensitive Area
75-32	None
75-33	None
75-34	High Water Table (Map Unit WH – 32%) Flooded Soils (Map Unit WH – 32%) Leaching Potential (Map Unit SeC – 57%)
75-35	High Water Table (Map Unit WH – 9%) Flooded Soils (Map Unit WH – 9%) Leaching Potential (Map Units SeB, SeC – 43%)
75-36	None
75-37	Leaching Potential (Map Unit SeC - 22%)
75-38	High Water Table (Map Unit WH – 20%) Flooded Soils (Map Unit WH – 20%) Leaching Potential (Map Unit SeC – 22%
75-39	None
75-40	High Water Table (Map Unit WH – 18%) Flooded Soils (Map Unit WH – 18%)
75-41	None
75-42	None

Louisa County Soils that are Environmentally Sensitive

Soil Map Unit	Series Name	Time o	Environmental	
•		High Water	Flooded	
AsB, AsC, AsD	Ashlar			Leaching
AsC3, AsD3	Ashlar			Leaching
AV	Ashlar			Leaching
Ch	Chewacla	Nov – April	Nov – April	
ClB	Colfax	Nov – June		
Eb	Elbert	Nov – May		
FN	Fluvaquents	Nov – April	Nov – April	
Fo	Forestdale	Jan – April	Jan – April	
FrB	Fork	Oct - May	Oct - May	
IdB	Iredell	Dec – April		
IdB2, IdC2	Iredell	Dec – April		
IrA, IrB	Iredell	Dec – April		
Iv	Iredell	Dec – April		
LgB	Lignum	Dec - May		
MnB, MnC, MnD	Madison			Shallow
MoC, MoD	Madison			Shallow
SeB, SeC, SeD	Sekil			Leaching
SeC3	Sekil			Leaching
SP	Sekil			Leaching
To	Tocca		Jan – Dec	
Ts	Tocca		Jan – Dec	
We	Wehadkee	Nov – May	Nov – June	
WH	Wehadkee-Chewacla	Nov – May	Nov – June	
WoB	Worsham	Nov - May		

MAP LEGEND



House/Dwelling with a well



Rock Outcrop



Well



Lake/Pond



Slope which exceeds 15%



Intermittent Stream



Stream/River



Agricultural/Drainage Ditch



Field boundary



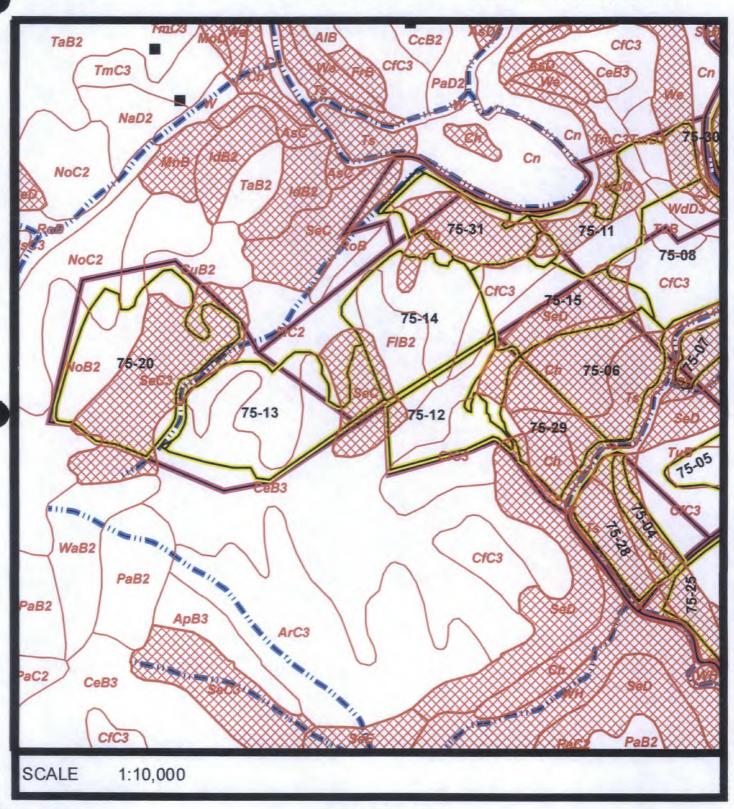
Property Line - (Standard 100'

Buffer, unless waiver issued)

Revised. Jan 13, '14

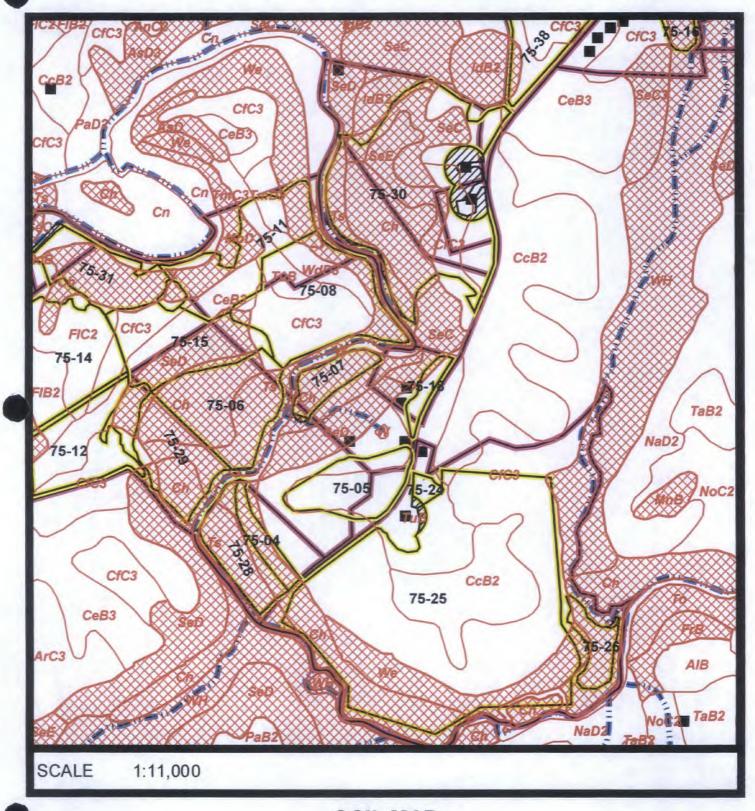


Roy Hopkins LO75 Fields 4, 6, 12-15, 20, 28, 29, 31



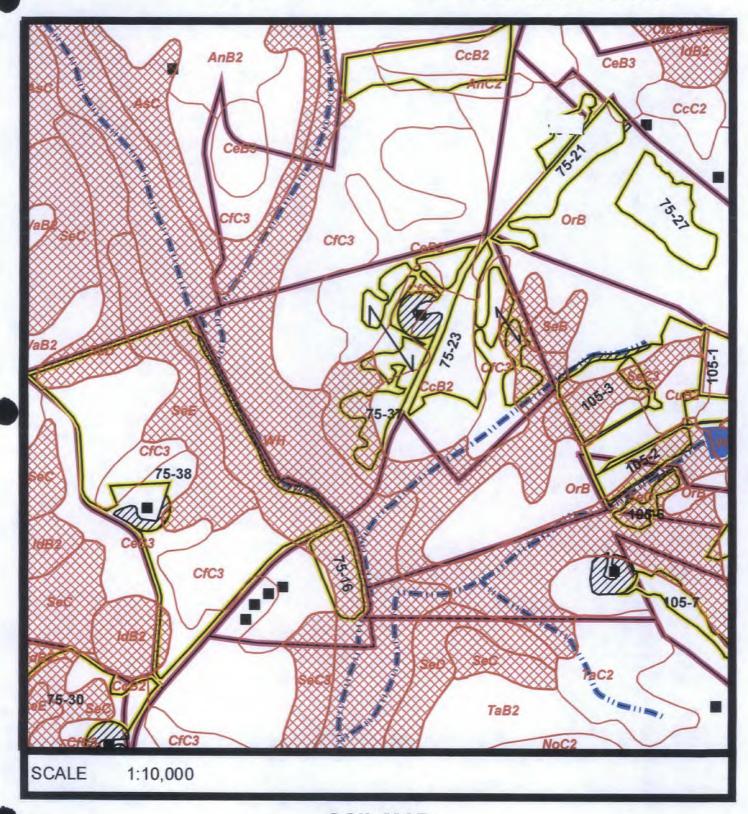


Roy Hopkins LO75 Fields 5, 7, 8, 11, 24-26, 30



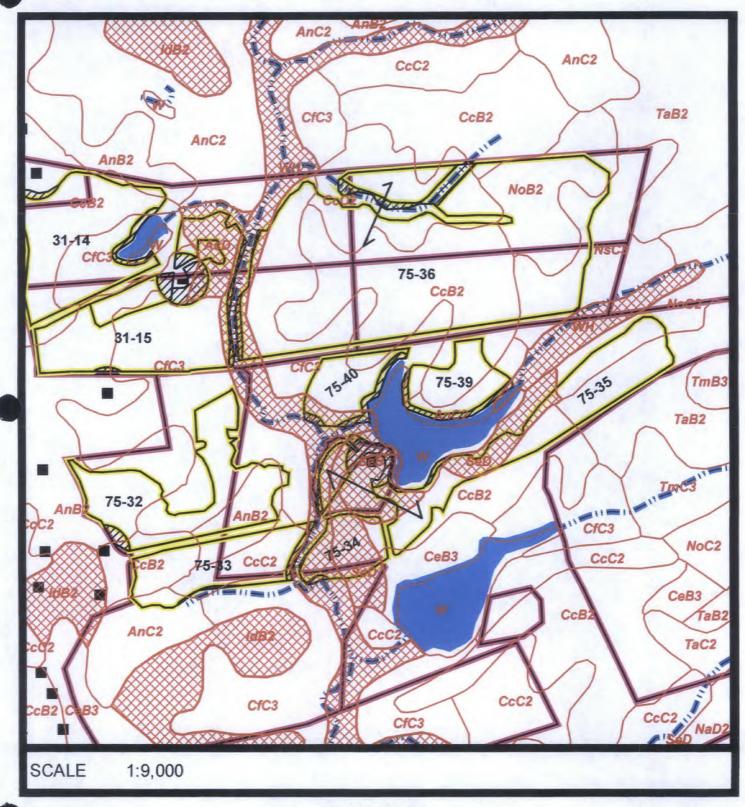


Roy Hopkins LO75 Fields 16, 21 – 23, 27, 37, 38





Roy Hopkins LO75 Fields 32 – 36, 39

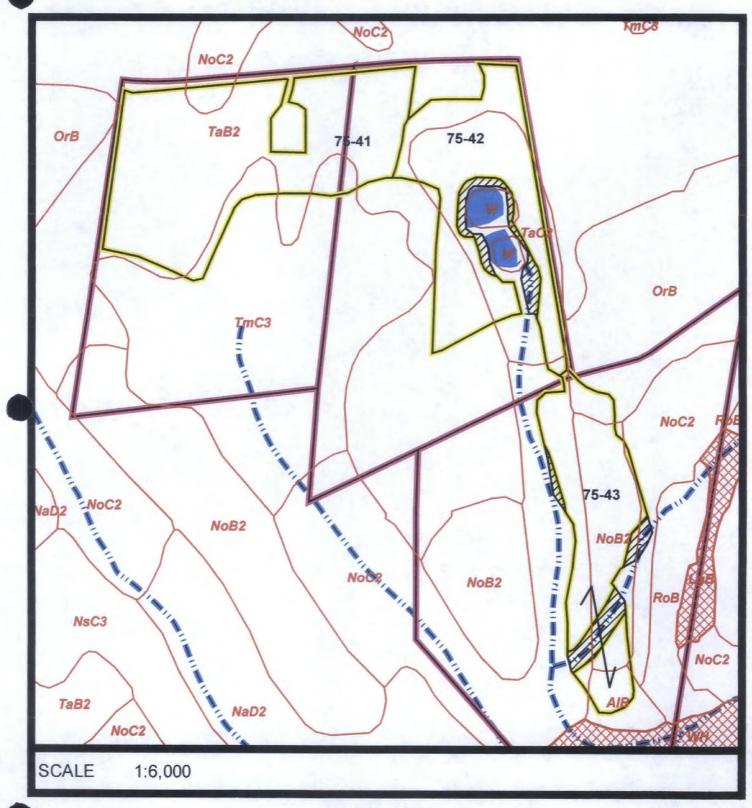


SOIL MAP



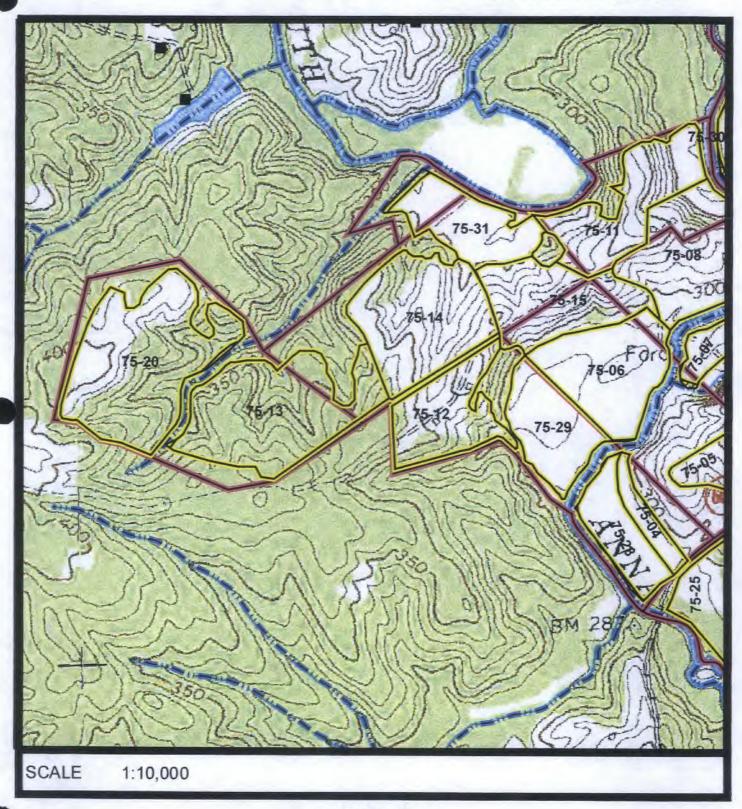
Environmentally Sensitive Soil

Roy Hopkins LO75 Fields 41 – 43

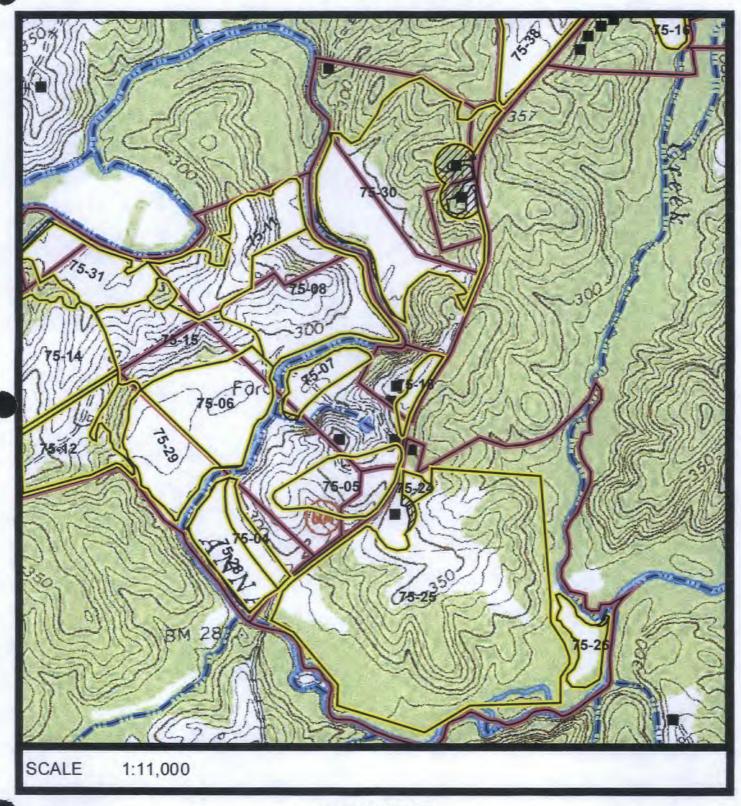




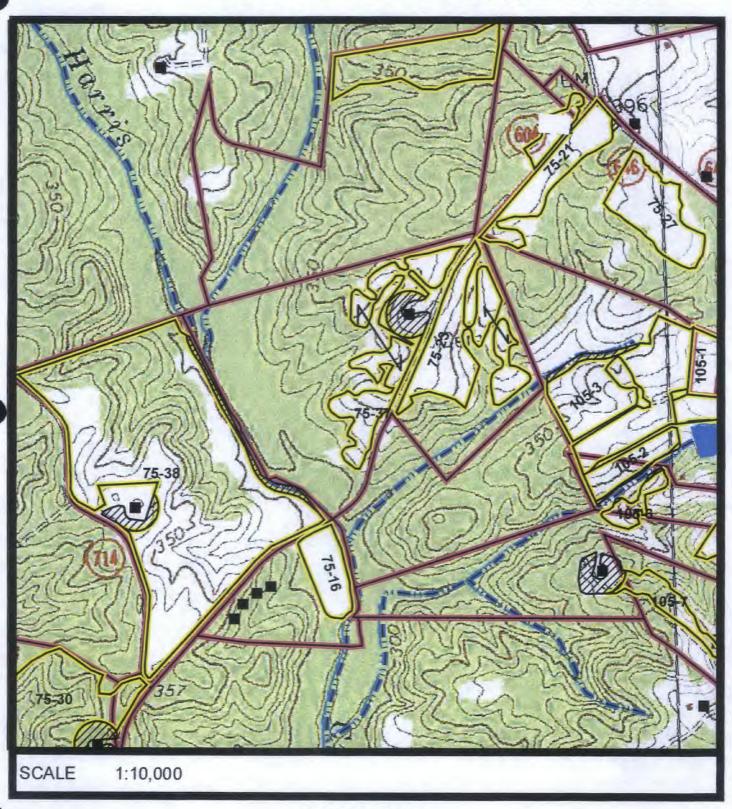
Roy Hopkins LO75 Fields 4, 6, 12-15, 20, 28, 29, 31



Roy Hopkins LO75 Fields 5, 7, 8, 11, 24-26, 30

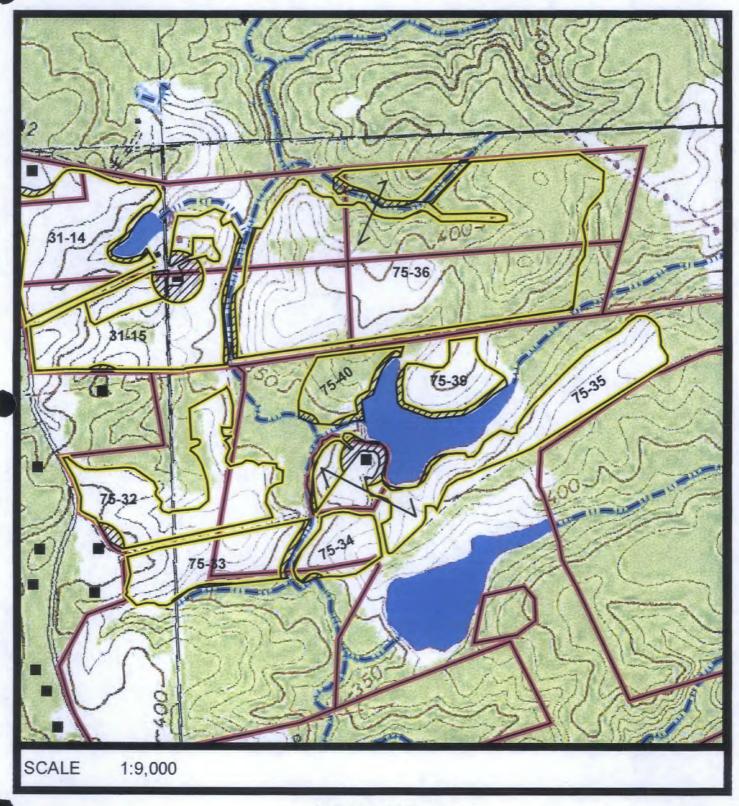


Roy Hopkins LO75 Fields 16, 21 – 23, 27, 37, 38

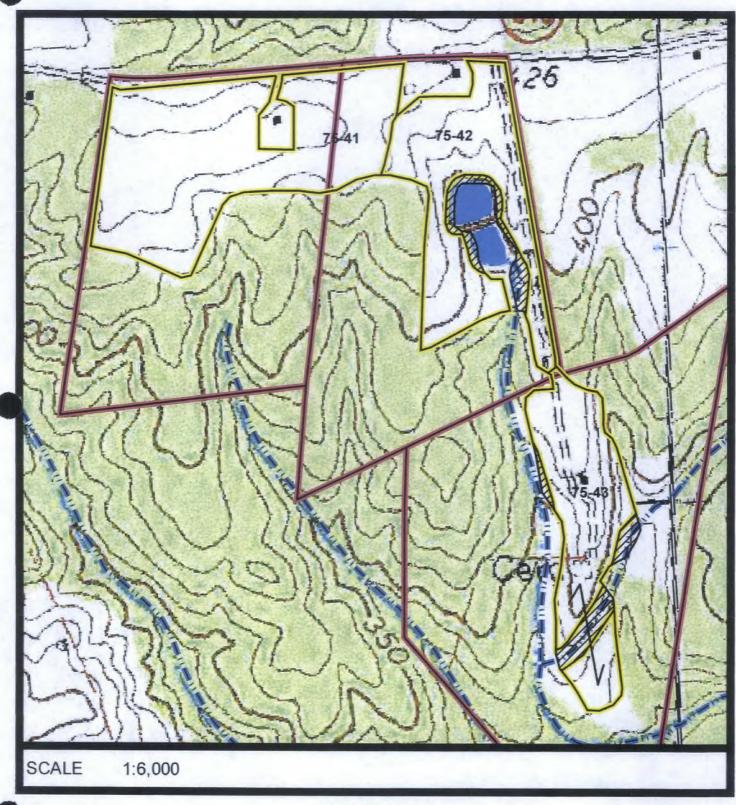


TOPO MAP

Roy Hopkins LO75 Fields 32 – 36, 39

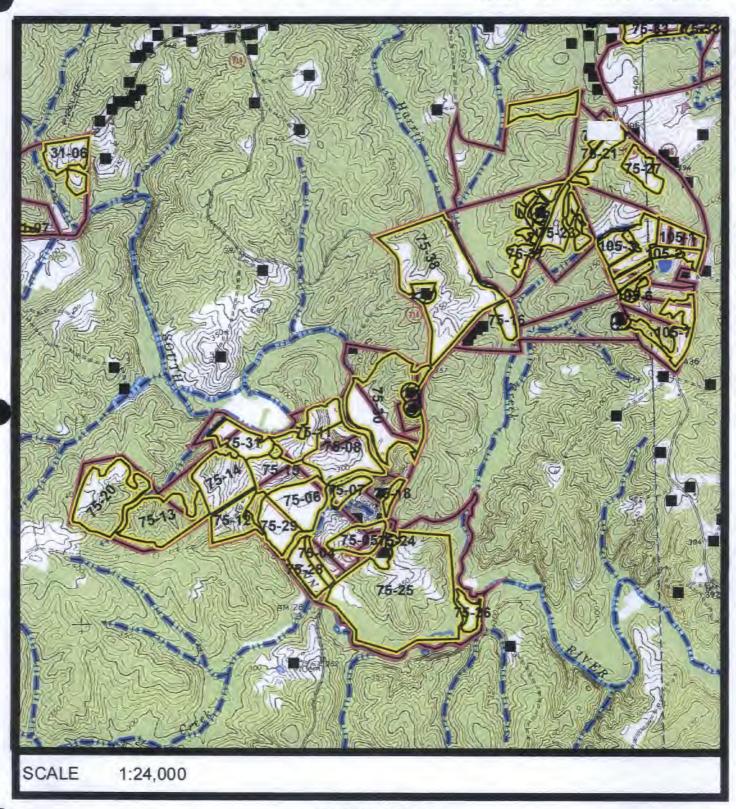


Roy Hopkins LO75 Fields 41 – 43

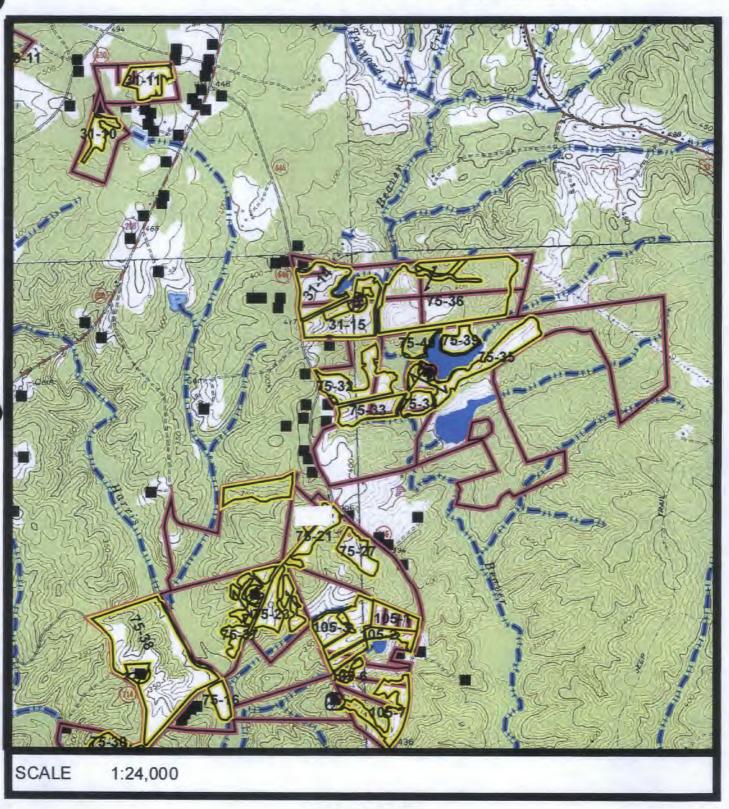


TOPO MAP

Roy Hopkins LO75 Fields 4 – 8, 11 – 18, 20 – 31, 37, 38

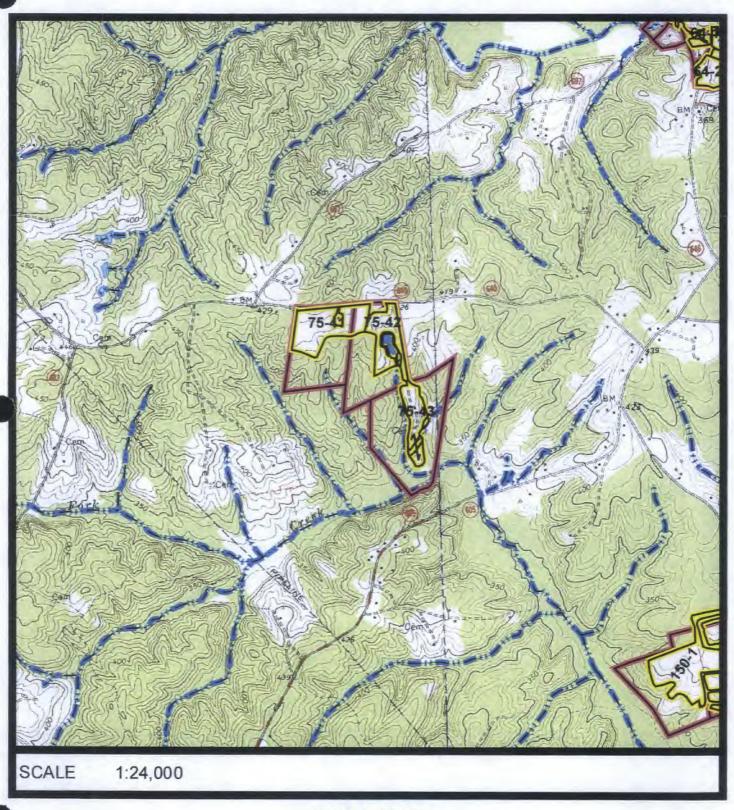


Roy Hopkins LO75 Fields 32 – 36, 39, 40



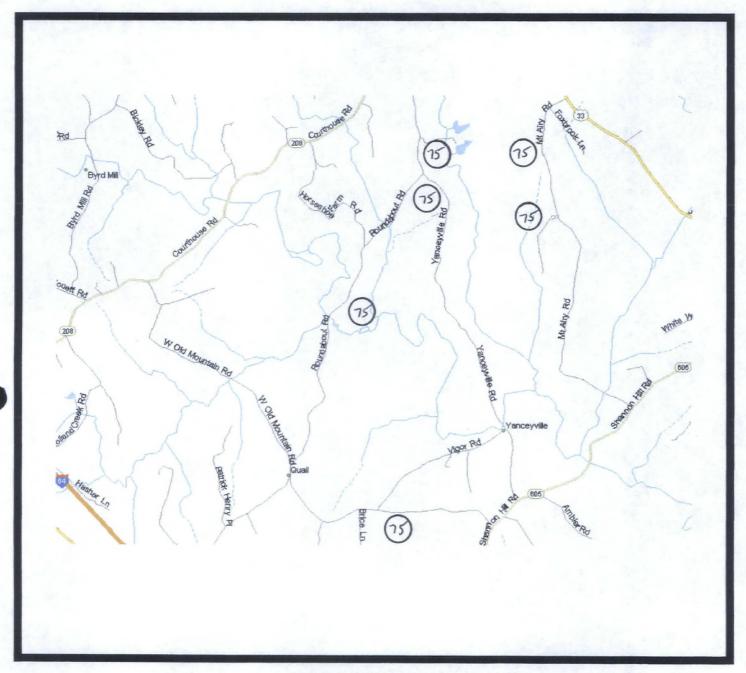
TOPO MAP

Roy Hopkins LO75 Fields 41 – 43





Roy Hopkins LO75 Fields 4 – 8, 11 – 16, 18, 20 – 43



LOCATION MAP